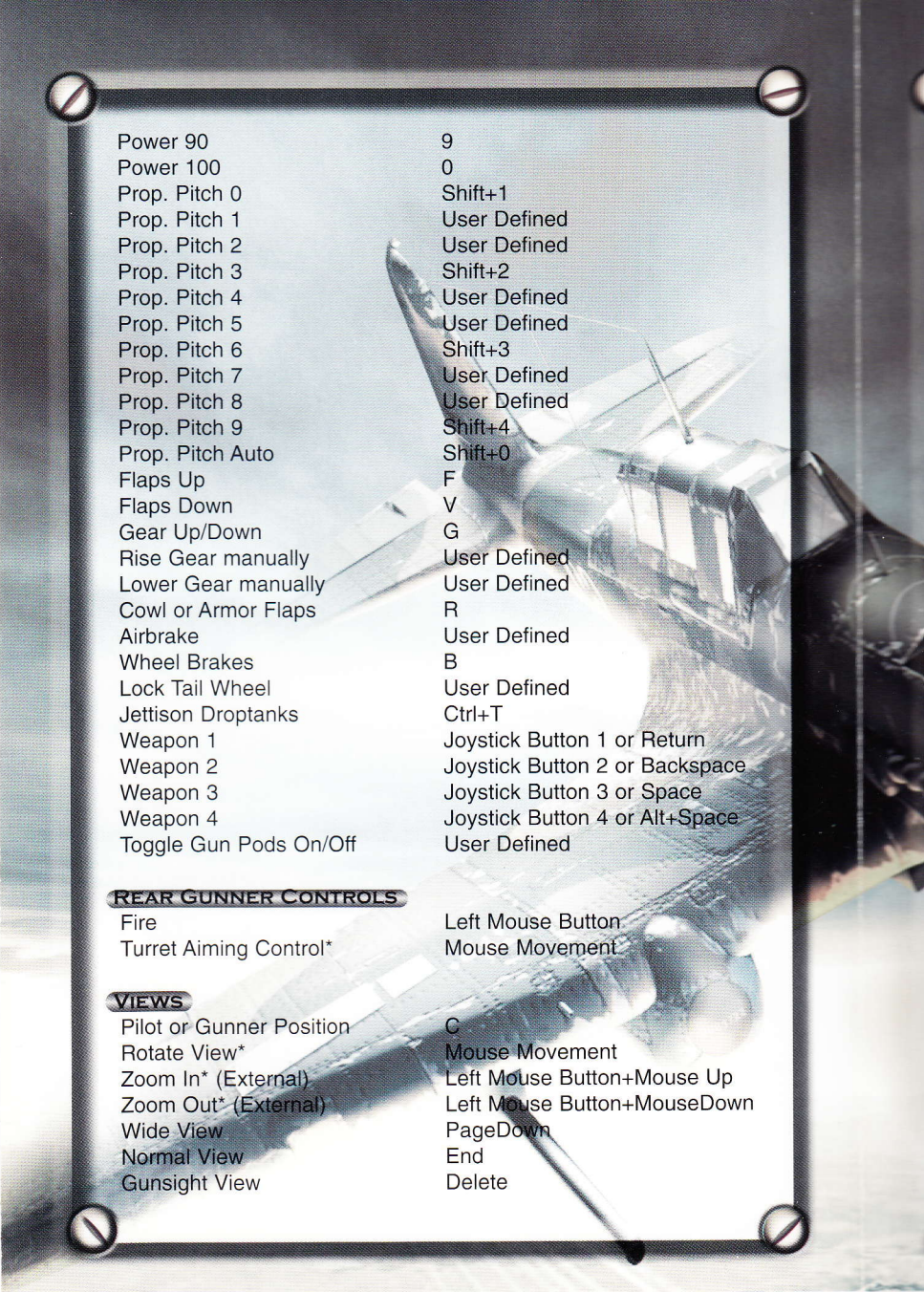


CONTROL KEYS REFERENCE

AIRCRAFT CONTROLS

KEYS

Elevator Up	(Nose Up)	Down Arrow
Elevator Down	(Nose Down)	Up Arrow
Aileron Left	(Roll Left)	Left Arrow
Aileron Right	(Roll Right)	Right Arrow
Rudder Left Full	(Yaw Left)	Z
Rudder Right Full	(Yaw Right)	X
Rudder Left		,
Rudder Neutral		/
Rudder Right		.
Elevator Trim Positive		Ctrl+Down Arrow
Elevator Trim Neutral		Shift+Up Arrow or Shift+Down Arrow
Elevator Trim Negative		Ctrl+Up Arrow
Aileron Trim Left		Ctrl+Left Arrow
Aileron Trim Neutral		Shift+Right Arrow or Shift+Left Arrow
Aileron Trim Right		Ctrl+Right Arrow
Rudder Trim Left		Ctrl+Z
Rudder Trim Neutral		Shift+Z or Shift+X
Rudder Trim Right		Ctrl+X
Toggle Engine		I
Increase Engine Power		= or NumPad+
Decrease Engine Power		- or NumPad-
Boost (WEP) On/Off		W
Power 0		1
Power 10		User Defined
Power 20		2
Power 30		3
Power 40		4
Power 50		5
Power 60		6
Power 70		7
Power 80		8



Power 90	9
Power 100	0
Prop. Pitch 0	Shift+1
Prop. Pitch 1	User Defined
Prop. Pitch 2	User Defined
Prop. Pitch 3	Shift+2
Prop. Pitch 4	User Defined
Prop. Pitch 5	User Defined
Prop. Pitch 6	Shift+3
Prop. Pitch 7	User Defined
Prop. Pitch 8	User Defined
Prop. Pitch 9	Shift+4
Prop. Pitch Auto	Shift+0
Flaps Up	F
Flaps Down	V
Gear Up/Down	G
Rise Gear manually	User Defined
Lower Gear manually	User Defined
Cowl or Armor Flaps	R
Airbrake	User Defined
Wheel Brakes	B
Lock Tail Wheel	User Defined
Jettison Droptanks	Ctrl+T
Weapon 1	Joystick Button 1 or Return
Weapon 2	Joystick Button 2 or Backspace
Weapon 3	Joystick Button 3 or Space
Weapon 4	Joystick Button 4 or Alt+Space
Toggle Gun Pods On/Off	User Defined

REAR GUNNER CONTROLS

Fire	Left Mouse Button
Turret Aiming Control*	Mouse Movement

VIEWS

Pilot or Gunner Position	C
Rotate View*	Mouse Movement
Zoom In* (External)	Left Mouse Button+Mouse Up
Zoom Out* (External)	Left Mouse Button+MouseDown
Wide View	PageDown
Normal View	End
Gunsight View	Delete

Cockpit View	F1
No Cockpit View	Ctrl+F1
External View	F2
Next Friendly View	Shift+F2
Next Enemy View	Ctrl+F2
Fly-by View	F3
Padlock Enemy	F4
Padlock Friendly	Shift+F4
Padlock Enemy Ground	F5
Padlock Friendly Ground	Shift+F5
Padlock Next	U
Padlock Previous	Y
Instant View Forward with Padlock	NumPad Insert
External Padlock, Enemy Air	F6
External Padlock, Friendly Air	Shift+F6
External Padlock, closest Enemy Air	Alt+F6
External Padlock, Enemy Ground	F7
External Padlock, Friendly Ground	Shift+F7
External Padlock, closest Enemy Ground	Alt+F7
Chase View	F8
Next Friendly Chase View	Shift+F8
Next Enemy Chase View	Ctrl+F8

SNAP VIEW

Toggle Snap/Pan View	F9
Look Forward	NumPad 8
Look Front Up	User Defined
Look Front Down	User Defined
Look Front Left	NumPad 7
Look Front Right	NumPad 9
Look Front Up Left	User Defined
Look Front Up Right	User Defined
Look Front Down Left	User Defined
Look Front Down Right	User Defined
Look Back Left	NumPad 1
Look Back Right	NumPad 3
Look Back Up Left	User Defined
Look Back Up Right	User Defined
Look Back Down Left	User Defined
Look Back Down Right	User Defined
Look Up	NumPad 5

Look Up Left	User Defined
Look Up Right	User Defined
Look Down	NumPad 2
Look Down Left	User Defined
Look Down Right	User Defined
Look Left	NumPad 4
Look Right	NumPad 6

PAN VIEW

Center View	NumPad 5
Pan View Up	NumPad 8
Pan View Down	NumPad 2
Pan View Left	NumPad 4
Pan View Right	NumPad 6
Pan View Up Left	NumPad 7
Pan View Up Right	NumPad 9
Pan View Down Left	NumPad 1
Pan View Down Right	NumPad 3

COMMS

Toggle Comms	Tab
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MISCELLANEOUS CONTROLS

Toggle Autopilot	A
Bail Out	Ctrl+E
Toggle Gunsight	Shift+F1
Toggle Reticle Dimmer (German Planes)	Ctrl+D
Cockpit Lights	Ctrl+L
Toggle Wingtip Smoke	T
Toggle Map	M
Chat	`
Toggle Speed Bar	User Defined

TIME CONTROLS

Accelerate Time x2/x4/x8]
Normal Time	,
Decelerate Time x2/x4	[
Pause Game	P

User cannot define these controls. They are only default.*



INSTRUMENTATION

UNITS

	IMPERIAL	METRIC
Distance	Feet, Miles	Meters, Kilometers
Speed	Mph	Km/h
Acceleration	Feet/sec	M/sec
Pressure	Lbs/Inch ²	Kg/Cm ²
Temperature	°C	°C
Liquid	Gallons	Liters

GAUGES

ALTIMETER

USSR



GER



USA



Shows altitude of the plane above sea level

AIR SPEED INDICATOR (AIR-SPEED INDICATOR)



Shows current air speed

ARTIFICIAL HORIZON (FLIGHT INDICATOR)



Shows pitch (horizontal) and roll + slip indicator (Ger only)

+ SLIP INDICATOR

VARIOMETER (CLIMB INDICATOR)



Shows rate of climb/descent

REPEATER COMPASS (REMOTE READING COMPASS)



Shows current heading (outer needle) and direction to the next waypoint (inner needle)

MANIFOLD PRESSURE GAUGE



Shows supercharger pressure

TURN AND BANK INDICATOR



Shows slip angle (horizontal) and turn rate of the plane

MAGNETIC COMPASS (TURN INDICATOR)



Shows current heading

TACHOMETER



Shows engine RPM

CLOCK



Shows time

FUEL CONTENTS GAUGE (LIQUIDOMETER)



Shows fuel quantity

ENGINE GAGE UNIT



Shows fuel (left bottom) & oil pressure (right bottom) + oil temperature (top: USSR & USA only)

OIL TEMPERATURE



Shows engine oil temperature

OIL PRESSURE



Shows oil pressure

COOLANT TEMPERATURE



Shows engine coolant temperature

PROPELLER PITCH



Shows propeller pitch angle

Comments: WWII era names of the gauges are given in parenthesis.